EAST Search History

L6	0	((3d or ((three or "3") with (dimension or dimensional))) same (2d or ((two or "2") with (dimension or dimensional))) same desktop same (convert or converting or conversion or converted or transformed or transforming or transform or transformation) and ((internet or web))).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/11 18:08

EAST Search History

L7	1	(3d or ((three or "3") near4 (dimension or dimensional))) same (2d or ((two or "2") near4 (dimension or dimensional))) with (convert or conversion or converted or converting or transform or transforming or transformed or transformation) same desktop same (web or internet)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/11 16:43
L8	99	(3d or ((three or "3") near4 (dimension or dimensional))) same (2d or ((two or "2") near4 (dimension or dimensional))) with (convert or conversion or converted or converting or transform or transforming or transformed or transformation) same (web or internet)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/11 16:44
L9	0	(3d or ((three or "3") near4 (dimension or dimensional))) same (2d or ((two or "2") near4 (dimension or dimensional))) with (convert or conversion or converted or converting or transform or transforming or transformed or transformation) and (web or internet) same (persistent or consistent or persistence) with (disconnect or disconnected or disconnection or disable or disabled or unconnected or unconnect or unconnection or terminate or terminated or terminating or disconnecting or unconnecting or termination)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/11 16:45

EAST Search History

L10	0	(3d or ((three or "3") near4 (dimension or dimensional))) same (2d or ((two or "2") near4 (dimension or dimensional))) with (convert or conversion or converted or converting or transform or transforming or transformed or transformation) and (web or internet) same (persistent or consistent or persistence) same (disconnect or disconnected or disconnection or disable or disabled or unconnected or unconnect or unconnection or terminate or terminated or terminating or disconnecting or unconnecting or termination)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/11 16:46
L11	58	(3d or ((three or "3") near4 (dimension or dimensional))) same (2d or ((two or "2") near4 (dimension or dimensional))) with (convert or conversion or converted or converting or transform or transforming or transformed or transformation) and (web or internet) same(disconnect or disconnected or disconnection or disable or disabled or unconnected or unconnect or unconnection or terminate or terminated or terminating or disconnecting or unconnecting or termination)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/11 17:48
L12	3	(3d or ((three or "3") near4 (dimension or dimensional))) with (interface or environment) same (2d or ((two or "2") near4 (dimension or dimensional))) with (convert or conversion or converted or converting or transform or transforming or transformed or transformation) and (web or internet) same(disconnect or disconnected or disconnection or disable or disabled or unconnected or unconnect or unconnection or terminate or terminated or terminating or disconnecting or unconnecting or termination)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/11 16:49

EAST Search History

L13	4	(3d or ((three or "3") near4 (dimension or dimensional))) with (interface or environment) same (2d or ((two or "2") near4 (dimension or dimensional))) with (convert or conversion or converted or converting or transform or transforming or transformed or transformation) same desktop	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/11 17:45
L14	4	13 not 12	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/11 16:50
L15	7	715/836,757,848-852.ccls.and (convert or conversion or converted or converting or transform or transforming or transformed or transformation) same desktop	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/11 17:46
L16	45	715/836,757,848-852.ccls.and (convert or conversion or converted or converting or transform or transforming or transformed or transformation) with (interface or environment)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/11 17:46
L17	1	16 and (web or internet) same (disconnect or disconnected or disconnection or disable or disabled or unconnected or unconnect or unconnection or terminate or terminated or terminating or disconnecting or unconnecting or termination)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/11 17:48
L18	0	16 and (web or internet) same (persistent or consistent or persistence)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/11 17:48
L19	323	(web or internet) same (disconnect or disconnected or disconnection or disable or disabled or unconnected or unconnect or unconnection or terminate or terminated or terminating or disconnecting or unconnecting or termination) same (persistent or persistence or consistent)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/11 17:48

EAST Search History

L20	76	(web or internet) same (disconnect or disconnected or disconnection or disable or disabled or unconnected or unconnect or unconnection or terminate or terminated or terminating or disconnecting or unconnecting or termination) with (persistent or persistence or consistent)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/11 17:48
L21	4	(3d or ((three or "3") near4 (dimension or dimensional))) same (2d or ((two or "2") near4 (dimension or dimensional))) and 20	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/11 17:49

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1 Fast detection of communication patterns in distributed executions
Thomas Kunz, Michiel F. H. Seuren
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**
Publisher: IBM Press
Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

2 Visualizing geospatial data
Theresa Marie Rhyne, Alan MacEachren, Theresa-Marie Rhyne
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes SIGGRAPH '04**
Publisher: ACM Press
Full text available: pdf(14.01 MB) Additional Information: full citation, abstract

This course reviews concepts and highlights new directions in GeoVisualization. We review four levels of integrating geospatial data and geographic information systems (GIS) with scientific and information visualization (VIS) methods. These include:• Rudimentary: minimal data sharing between the GIS and Vis systems• Operational: consistency of geospatial data• Functional: transparent communication between the GIS and Vis systems• Merged: one comprehensive toolkit environmentW ...

3 Shape-based retrieval and analysis of 3D models
Thomas Funkhouser, Michael Kazhdan
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes SIGGRAPH '04**
Publisher: ACM Press
Full text available: pdf(12.56 MB) Additional Information: full citation, abstract

Large repositories of 3D data are rapidly becoming available in several fields, including mechanical CAD, molecular biology, and computer graphics. As the number of 3D models grows, there is an increasing need for computer algorithms to help people find the

interesting ones and discover relationships between them. Unfortunately, traditional text-based search techniques are not always effective for 3D models, especially when queries are geometric in nature (e.g., find me objects that fit into thi ...

4 Infrastructure: Adding a fourth dimension to three dimensional virtual spaces

Robina E. Hetherington, John P. Scott

April 2004 **Proceedings of the ninth international conference on 3D Web technology**

Publisher: ACM Press

Full text available: pdf(336.66 KB) Additional Information: full citation, abstract, references, index terms

The development of new standards for distributed data offer new possibilities to combine and display multiple types of information. This paper is concerned with an architectural and historical application of X3D and XML to objects, such as buildings, which have an organic quality and tend to evolve over time. The display of a 3D computer model does not always adequately describe the building or artifact and additional data are often required.This paper describes and evaluates techniques for the ...

Keywords: Interactive 3D Graphics, X3D, XML, architecture, cultural heritage, information visualization

5 Mobile refinding of web information using a voice interface: an exploratory study

Robert G. Capra, Manuel A. Pérez-Quiñones

October 2005 **Proceedings of the 2005 Latin American conference on Human-computer interaction CLIHC '05**

Publisher: ACM Press

Full text available: pdf(307.47 KB) Additional Information: full citation, abstract, references

Refinding information found on the web is a considerable problem for many users, especially when in mobile situations. In this paper, we explore how a voice-controlled service, accessible by telephone, could help to support mobile users' needs for refinding specific information previously found on the web. We outline challenges in creating such a service and describe architectural and user interfaces issues involved in an exploratory prototype system called WebContext.We also present the results ...

Keywords: conversation analysis, information management, information refinding, speech recognition, voice user interfaces

6 Understanding and constructing shared spaces with mixed-reality boundaries

Steve Benford, Chris Greenhalgh, Gail Reynard, Chris Brown, Boriana Koleva

September 1998 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 5 Issue 3

Publisher: ACM Press

Full text available: pdf(2.50 MB) Additional Information: full citation, abstract, references, citings, index terms

We propose an approach to creating shared mixed realities based on the construction of transparent boundaries between real and virtual spaces. First, we introduce a taxonomy that classifies current approaches to shared spaces according to the three dimensions of transportation, artificiality, and spatiality. Second, we discuss our experience of staging a poetry performance simultaneously within real and virtual theaters. This demonstrates the complexities involved in establishing social in ...

Keywords: CSCW, augmented reality, collaborative virtual environments, media-spaces, mixed reality, shared spaces, telepresence, video, virtual reality

7 Device-aware desktop web page transformation for rendering on handhelds
A. Artail, Mackram Raydan
November 2005 **Personal and Ubiquitous Computing**, Volume 9 Issue 6
Publisher: Springer-Verlag
Full text available: pdf(752.77 KB) Additional Information: full citation, abstract, index terms

This paper illustrates a new approach to automatic re-authoring of web pages for rendering on small-screen devices. The approach is based on automatic detection of the device type and screen size from the HTTP request header to render a desktop web page or a transformed one for display on small screen devices, for example, PDAs. Known algorithms (transforms) are employed to reduce the size of page elements, to hide parts of the text, and to transform tables into text while preserving the structu ...

Keywords: Context awareness, Mobile device types, Small screen devices, Transcoding, Web browsing, Web page rendering, Wireless devices

8 Conversations with Clement Mok and Jakob Nielsen, and with Bill Buxton and Clifford Nass
Richard I. Anderson
January 2000 **interactions**, Volume 7 Issue 1
Publisher: ACM Press
Full text available: pdf(986.68 KB) html(148.66 KB) Additional Information: full citation, citings, index terms

9 Putting it together a multi-dimensional approach to Internet security
Frederick M. Avolio
May 1998 **netWorker**, Volume 2 Issue 2
Publisher: ACM Press
Full text available: pdf(367.36 KB) Additional Information: full citation, references, index terms

10 In pursuit of desktop evolution: User problems and practices with modern desktop systems
Pamela Ravasio, Sissel Guttormsen Schär, Helmut Krueger
June 2004 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 11 Issue 2
Publisher: ACM Press
Full text available: pdf(2.33 MB) Additional Information: full citation, abstract, references, index terms

This study deals with the problems users encounter in their daily work with computers and the typical practices that they employ. Sixteen daily computer users were interviewed about their habits and problems that they encountered during document classification and retrieval. For both these areas, we provide an overview of identified user practices and a citation-based analysis of the problems users encountered, including those related to the use of the screen real estate (the actual desktop). Tw ...

Keywords: Desktop metaphor, document classification, document retrieval, improvements., personal computer, user practices, user problems, user study

11 The Diesel Combustion Collaboratory: combustion researchers collaborating over the

Internet
Carmen M. Pancerella, Larry A. Rahn, Christine L. Yang
January 1999 **Proceedings of the 1999 ACM/IEEE conference on Supercomputing (CDROM)**
Publisher: ACM Press
Full text available: pdf(8.95 MB) Additional Information: full citation, references, citings, index terms

12 Past, present, and future of user interface software tools
Brad Myers, Scott E. Hudson, Randy Pausch
March 2000 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 7 Issue 1
Publisher: ACM Press
Full text available: pdf(151.14 KB) Additional Information: full citation, abstract, references, citings, index terms, review

A user interface software tool helps developers design and implement the user interface. Research on past tools has had enormous impact on today's developers—virtually all applications today are built using some form of user interface tool. In this article, we consider cases of both success and failure in past user interface tools. From these cases we extract a set of themes which can serve as lessons for future work. Using these themes, past tools can be characterized by what aspects ...

Keywords: event languages, interface builders, scripting languages, toolkits, user interface development environments, user interface software

13 Session 14: modeling and tools II: Conceptual modeling and code generation for rich internet applications
Alessandro Bozzon, Sara Comai, Piero Fraternali, Giovanni Toffetti Carughi
July 2006 **Proceedings of the 6th international conference on Web engineering ICWE '06**
Publisher: ACM Press
Full text available: pdf(690.56 KB) Additional Information: full citation, abstract, references, index terms

This paper addresses conceptual modeling and automaticcode generation for Rich Internet Applications, a variant ofWeb-based systems bridging desktop and thin-client Webinterfaces. We show how classical Web modeling conceptsare not enough to capture the specificity of RIAs, extend anexisting Web modeling language, and provide an implementationof a CASE tool for visual modeling and code generationfrom RIA-aware specifications. Experimentation of theproposed approach in real-world scenarios is also ...

Keywords: rich internet applications, web engineering, web site design

14 Adapting to network and client variability via on-demand dynamic distillation
Armando Fox, Steven D. Gribble, Eric A. Brewer, Elan Amir
October 1996 **ACM SIGOPS Operating Systems Review , ACM SIGPLAN Notices , Proceedings of the seventh international conference on Architectural support for programming languages and operating systems ASPLOS-VII**, Volume 30 , 31 Issue 5 , 9
Publisher: ACM Press
Full text available: pdf(1.64 MB) Additional Information: full citation, abstract, references, citings, index terms

The explosive growth of the Internet and the proliferation of smart cellular phones and handheld wireless devices is widening an already large gap between Internet clients.

Clients vary in their hardware resources, software sophistication, and quality of connectivity, yet server support for client variation ranges from relatively poor to none at all. In this paper we introduce some design principles that we believe are fundamental to providing "meaningful" Internet access for the entire range of ...

15 Conversation trees and threaded chats



Marc Smith, J. J. Cadiz, Byron Burkhalter

December 2000 **Proceedings of the 2000 ACM conference on Computer supported cooperative work**

Publisher: ACM Press

Full text available: pdf(163.07 KB) Additional Information: full citation, abstract, references, citings, index terms

Chat programs and instant messaging services are increasingly popular among Internet users. However, basic issues with the interfaces and data structures of most forms of chat limit their utility for use in formal interactions (like group meetings) and decision-making tasks. In this paper, we discuss Threaded Text Chat, a program designed to address some of the deficiencies of current chat programs. Standard forms of chat introduce ambiguity into interaction in a number of ways, most profo ...

Keywords: chat programs, computer mediated communication, conversation, human computer human interaction, persistent conversation, synchronous communication, turn-taking

16 Multi-platform interfaces: Flexible re-engineering of web sites



Laurent Bouillon, Jean Vanderdonckt, Kwok Chieu Chow

January 2004 **Proceedings of the 9th international conference on Intelligent user interface**

Publisher: ACM Press

Full text available: pdf(731.09 KB) Additional Information: full citation, abstract, references, index terms

Re-engineering transforms a final user interface into a logical representation that is manipulable enough to allow forward engineering to port a UI from one computing platform to another with maximum flexibility and minimal effort. Re-engineering is used to adapt a UI to another context. This adaptation is governed by two main tasks: the adaptation of the code itself to the new computing platform and the redesign of the UI to better suit the new constraints of the target platform (interaction ca ...

Keywords: forward engineering, model-based approach, portability, reengineering, reverse engineering

17 A comparison of voice controlled and mouse controlled web browsing



Kevin Christian, Bill Kules, Ben Shneiderman, Adel Youssef

November 2000 **Proceedings of the fourth international ACM conference on Assistive technologies**

Publisher: ACM Press

Full text available: pdf(1.87 MB) Additional Information: full citation, references, citings, index terms

Keywords: human-computer, interaction, user interfaces, voice browsers, voice recognition, web browsing

18 Cluster-based scalable network services

Armando Fox, Steven D. Gribble, Yatin Chawathe, Eric A. Brewer, Paul Gauthier
October 1997 **ACM SIGOPS Operating Systems Review , Proceedings of the sixteenth ACM symposium on Operating systems principles SOSP '97**, Volume 31 Issue 5
Publisher: ACM Press
Full text available: pdf(2.42 MB) Additional Information: full citation, references, citings, index terms

19 Novel interfaces: FaceSpace: endo- and exo-spatial hypermedia in the transparent video facetop
David Stotts, Jason McC. Smith, Karl Gyllstrom
August 2004 **Proceedings of the fifteenth ACM conference on Hypertext and hypermedia HYPERTEXT '04**
Publisher: ACM Press
Full text available: pdf(2.19 MB) Additional Information: full citation, abstract, references, citings, index terms

The Transparent Video Facetop is a novel user interface concept that supports not only single-user interactions with a PC, but also close pair collaborations, such as that found in collaborative Web browsing, in distributed pair programming and in remote medicine. We recently demonstrated the Vis-a-Vid Facetop prototype as a single-user GUI for manipulating the elements of a traditional WIMP desktop [21]. In this paper we introduce FaceSpace, a Facetop-based hypermedia system that combines struc ...

Keywords: augmented reality, hypermedia, hypertext, transparency, video

20 Recovery guarantees for Internet applications
Roger Barga, David Lomet, German Shegalov, Gerhard Weikum
August 2004 **ACM Transactions on Internet Technology (TOIT)**, Volume 4 Issue 3
Publisher: ACM Press
Full text available: pdf(997.52 KB) Additional Information: full citation, abstract, references, index terms

Internet-based e-services require application developers to deal explicitly with failures of the underlying software components, for example web servers, servlets, browser sessions, and so forth. This complicates application programming, and may expose failures to end users. This paper presents a framework for an application-independent infrastructure that provides recovery guarantees and masks almost all system failures, thus relieving the application programmer from having to deal with these f ...

Keywords: Exactly-once execution, application recovery, communication protocols, interaction contracts

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L1	0	((3d or ((three or "3") near2 (dimension or dimensional))) same (2d or ((two or "2") near2 (dimension or dimensional))) same (convert or converting or conversion or converted or transformed or transforming or transform or transformation) same desktop same (icon or element or object) and ((internet or web) same (disconnect or disconnection or disconnected or disconnecting or unconnect or unconnecting or unconnected or unconnection or terminate or terminating or terminated or termination) with (persistent or persistence or consistent))).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/11 18:05
L2	0	((3d or ((three or "3") near2 (dimension or dimensional))) same (2d or ((two or "2") near2 (dimension or dimensional))) same (convert or converting or conversion or converted or transformed or transforming or transform or transformation) same (icon or element or object) and ((internet or web) same (disconnect or disconnection or disconnected or disconnecting or unconnect or unconnecting or unconnected or unconnection or terminate or terminating or terminated or termination) with (persistent or persistence or consistent))).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/11 18:06

EAST Search History

L3	0	((3d or ((three or "3") with (dimension or dimensional))) same (2d or ((two or "2") with (dimension or dimensional))) same (convert or converting or conversion or converted or transformed or transforming or transform or transformation) same (icon or element or object) and ((internet or web) same (disconnect or disconnection or disconnected or disconnecting or unconnect or unconnecting or unconnected or unconnection or terminate or terminating or terminated or termination) with (persistent or persistence or consistent))).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/11 18:06
L4	0	((3d or ((three or "3") with (dimension or dimensional))) same (2d or ((two or "2") with (dimension or dimensional))) same (convert or converting or conversion or converted or transformed or transforming or transform or transformation) and ((internet or web) same (disconnect or disconnection or disconnected or disconnecting or unconnect or unconnecting or unconnected or unconnection or terminate or terminating or terminated or termination) with (persistent or persistence or consistent))).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/11 18:07
L5	0	((3d or ((three or "3") with (dimension or dimensional))) same (2d or ((two or "2") with (dimension or dimensional))) same (convert or converting or conversion or converted or transformed or transforming or transform or transformation) and ((internet or web) same (disconnect or disconnection or disconnected or disconnecting or unconnect or unconnecting or unconnected or unconnection or terminate or terminating or terminated or termination))).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/11 18:07